

**FINAL
NAVAL STATION TREASURE ISLAND
BASE REALIGNMENT AND CLOSURE CLEANUP TEAM
MEETING MINUTES
JUNE 19, 2013**

These minutes summarize discussions with the Department of the Navy Base Realignment and Closure (BRAC) Cleanup Team (BCT) for the former Naval Station Treasure Island (NAVSTA TI). The meeting began at 10:00 a.m. on June 19, 2013, at the office of Tetra Tech EM Inc. (Tetra Tech) in Oakland, California.

The following participants attended the meeting:

Kate Austin, Treasure Island Development Authority (TIDA)*

Lora Battaglia, Navy*

Bob Burns, NGTS Inc. (consultant to AMEC and TIDA)*

Bill Carson, Terraphase Engineering (consultant to Treasure Island Community Developers [TICD])

Dave Clark, Navy

Jennifer Duffield, AMEC (consultant to TIDA)

Zach Edwards, Navy Radiological Affairs Support Office (RASO)*

Keith Forman, Navy

Chris Glenn, Treadwell & Rollo (consultant to TIDA)

Eric Goldman, San Francisco Public Utilities Commission (SF PUC)

Danielle Janda, Navy*

Quinn Johnson, Tetra Tech

Tracy Jue, California Department of Public Health (CDPH) Environmental Management Branch (EMB)*

Anthony Konzen, Navy

Gary Munekawa, Navy Resident Officer In Charge of Construction (ROICC)*

Jessica O'Sullivan, Tetra Tech

Nihal Oztek, Tetra Tech

Ron Pilorin, CDPH EMB*

Marcie Rash, Tetra Tech*

David Stensby, U.S. Environmental Protection Agency (EPA)*

Remedios (Medi) Sunga, California Department of Toxic Substances Control (DTSC)

Tommie Jean Valmassy, Tetra Tech

Matt Wright, CDPH EMB*

Myriam Zech, Regional Water Quality Control Board (Water Board)

* indicates attendee participated via telephone

I. Introductions, Meeting Guidelines, Agenda Review, and Meeting Minutes

Jessica O'Sullivan (Tetra Tech) began the meeting with introductions. She noted that the following 2013 minutes had been distributed to the BCT since the May 2013 BCT meeting: January, April, and May. Ms. O'Sullivan added that the minutes are considered final unless comments are submitted.

II. Site 12 Non-Time Critical Removal Action (NTCRA) Update

Site 12 – Phase I

Anthony Konzen (Navy) provided an update on the Site 12 Phase I handout. He said that any additional solid waste disposal area (SWDA) work will be completed under Phase III. Keith Forman (Navy) said he will discuss with CDPH later the rationale for having CDPH Radiological Health Branch (RHB) conducting verification surveys for non-radiologically impacted buildings. He noted the importance to stay on schedule and cautioned against alarming the public with unnecessary surveys. Matt Wright (CDPH EMB) said CDPH RHB is not participating in today's BCT meeting. Mr. Forman suggested the Navy could coordinate upcoming survey timeframes with Kent Prendergast (CDPH RHB) or EMB should coordinate with RHB.

Mr. Konzen said the SWDA A&B Draft Post-Construction Summary Report (PCSR) will be reissued as draft to include the data collected by Shaw Environmental Inc. (now Chicago Bridge & Iron [CB&I]) following the excavation. Bill Carson (Terraphase) asked for the rationale for disposing of the gas cylinders as low-level radiological waste (LLRW). Mr. Konzen explained the cylinders are corroded and were buried underground and there is dirt on them that needs to be tested. Medi Sunga (DTSC) asked about the schedule for CDPH EMB to conduct final surveys at Site 12. Dave Clark (Navy) explained the final status survey work has not begun and will take place during Phase III; the CDPH EMB will conduct its final status surveys at that time.

Site 12 – Phase II Hot Spot

Anthony Konzen (Navy) provided an update on Site 12 Phase II Hot Spot Non-time Critical Removal Action (NTCRA) / Building Demolition handout.

III. Radiological Management Work Plan

Danielle Janda (Navy) said the field work schedule is still to be determined but will last about 2 months for Site 12 and Building 3 efforts, and then another month for Site 32. Mr. Forman said the Historical Radiological Assessment Supplemental Technical Memorandum (HRASTM) cannot move forward without the data from the Site 12 and selected roadways field efforts. Eric Goldman (SF PUC) asked which lines and components of the sewer lines will be assessed. Ms. Janda said the process for how the lines will be assessed will depend on whether the lines are active. She noted for example that Building 233 sewer lines are not active, but the Building 3 lines are active. Sediment sampling will be collected at the manholes and in pipe areas, including around breaks in the pipe and at joints. Mr. Goldman noted many lines on TI are asbestos-reinforced concrete. Ms. Janda said she believes the lines the Navy is assessing are all made of clay, but she will confirm those details with the contractor.

Mr. Carson asked if the wastewater lines leaving Buildings 233 and 3 will be assessed and asked if the lines are still impacted per the HRASTM. Ms. Janda said the lines outside the Buildings 233 and 3 project boundaries are not included in the current scope the Navy has contracted, but will be covered under a later, separate project. She clarified that the scope of her project does not include all the areas noted as impacted in the HRASTM, but the remaining HRASTM areas

will be covered in later projects. Mr. Carson noted he was concerned because the force main of the sanitary sewer system is an important part of the City's Phase I redevelopment.

IV. Historical Radiological Assessment – Supplemental Technical Memorandum Update

Mr. Clark provided an update on the HRASTM. Tracy Jue (CDPH EMB) asked what will be discussed during the working meeting that is proposed for July 31. Mr. Clark said the Navy is waiting for the Site 12 scanning data to see if there have been changes to the conceptual site model (CSM). He explained that we may not have data by then because mobilization to the field has been delayed a few weeks. The July 31st meeting would therefore be rescheduled. He said funding is available to conduct static surveys and biased samples during the scoping survey. The Navy may also characterize Site 12 in three dimensions to support free release in certain portions of the housing area. He explained the Navy is conducting additional research regarding the housing area grading history, outfalls, the historical incinerator in Site 12, and Crossroads ship decontamination before berthing. No major discoveries have been found during this additional research. A summary of the research will be provided during the working meeting scheduled for July 17 and the Navy will develop an updated schedule for the HRASTM after that meeting.

V. Building 233 Update

Mr. Konzen provided an update on the work at Building 233. Ms. Sunga asked if there was any soil removed as low-level radiological waste. Mr. Konzen said if there was any soil contamination, it was removed with the utilities. Mr. Clark noted that the asphalt was the most contaminated medium at the site after the sewers. Mr. Carson asked if the catch basins had been removed. Mr. Konzen said there are two catch basins remaining: one along Avenue M (catch basin 438) and another to the east toward Building 7 (catch basin 546). The one along Avenue M will be removed under a contract managed by Ms. Janda; the other catch basin has not been assigned to a contract. Mr. Carson asked if the soil stored in the bins is planned for reuse. Mr. Konzen replied affirmatively. Ms. Sunga asked if the Environmental Management Systems (EMS) bins containing the radiological contaminated soil are stored in the RCA. Mr. Konzen again replied affirmatively.

Mr. Carson asked if all the pipelines outside Building 233 will be surveyed. Mr. Clark said only areas where there is an elevated reading will be surveyed. The surveys for the sanitary lines have been contracted by the Navy, and the Navy is working to modify the scope to add the storm drains.

VI. Sites 27, 31, and 33 Update

Lora Battaglia (Navy) provided an update on Site 27 and Sites 31 and 33. She said the response to comments (RTC) for the Site 27 Draft Remedial Action Work Plan (RAWP) will be distributed soon to the BCT and the Navy is asking for a 1-week review of the RTCs. Ms. Battaglia said the Navy will be sending an updated marina access letter regarding the Site 27 work. The Navy will be able to limit the length of access restrictions for the marina during a few key times rather than limiting access for the duration of the cleanup.

Ms. Battaglia moved on to the update of Sites 31 and 33. She said the Site 33 RCA was down-posted but the Site 31 RCA will remain until the Final Status Survey (FSS) is conducted in November. The holes will also need to be backfilled before the RCA fencing is removed. Tetra Tech EC, Inc. will temporarily maintain the soil stockpiles and RCAs at Site 31 and the fencing at Site 33. Mr. Carson asked about the schedule for Site 33 because there is already a draft remedial action completion report (RACR) available. Ms. Battaglia said there will be an amended work plan for Site 33 to provide a few minor updates because a new contractor is being awarded the work. That work plan was already reviewed, so there is an expedited schedule on the document tracking sheet (DTS). Site 33 follows a similar schedule as Site 31.

Chris Glenn (Treadwell & Rollo) said the Boys & Girls Club had voiced complaints regarding the Site 31 fence. Tommie Jean Valmassy (Tetra Tech) said the complaints regarding the fence are that it is a visual impairment, but not a physical hazard, for the Boys & Girls Club. There are concerns from parents because the proximity of the fence makes them feel like the club is close to a remediation area. Mr. Forman said the Navy recently spoke to two of the administration staff for the Boys & Girls Club about their concerns regarding the environmental cleanup program. They were invited to call Mr. Forman directly with their concerns or questions and agreed to talk to the Navy more before they make decisions about the future of the programs on TI. Mr. Glenn asked when the fence will be removed. Mr. Clark said in 6 to 8 months, once the area is backfilled, scanned, and approved by the BCT.

VII. Upcoming Documents and Field Activities

Upcoming Documents

Mr. Clark reviewed the DTS and highlighted the upcoming documents anticipated for draft or final delivery and agency reviews due within the next 30 days. Mr. Carson asked what areas are covered in the Site 12 Feasibility Study. Mr. Clark said all of Site 12 is covered, except for Bayside/North Point and Bigelow Court. The FS will also include Halyburton Court. Ms. Sunga asked if the soil gas sampling noted on the field schedule was added to the monitoring for Site 21 Land Use Control Remedial Design (LUC) RD / RAWP. Ms. Janda said the soil and soil gas sampling is part of the final remedy for Site 21 that supports the LUC monitoring and will be part of the basewide groundwater and soil gas monitoring events. Ms. Sunga requested the title of the document in the DTS include soil gas. Mr. Clark replied affirmatively. He said that the 2013 Site Management Plan (SMP) is pending the Sites 31 and 33 schedules.

Field Schedule

Mr. Clark reviewed the field activities scheduled to begin within the next 30 days.

VIII. Restoration Advisory Board Meeting Agenda / Community Relations Update

Ms. Valmassy provided an update on the status of the NAVSTA TI Community Involvement Plan (CIP). Mr. Forman thanked Ms. Sunga and Ms. Zech for their participation in the community interviews conducted to date; about 15 have been completed. Ms. Valmassy stated the community interviews have provided concrete ideas and input. A draft of the CIP will be distributed in October.

IX. Open Forum for City / Developer / BCT

- June 12 TIDA meeting update: Jennifer Duffield (AMEC) said Treadwell & Rollo is the new consultant to TIDA, and AMEC will no longer be involved after June. Mr. Carson asked if Bob Burns will continue to be involved. Ms. Duffield replied affirmatively.
- Mr. Forman noted that, during the community interviews, many complaints related to tenant housing issues and unrelated to the Navy's environmental program were received from the residents. He asked Ms. Duffield or Treadwell & Rollo to communicate with TIDA and the John Stewart Company to resolve these issues. Ms. Duffield and Mr. Glenn replied affirmatively.
- Mr. Forman stated that Navy will begin their furloughs on July 8. Mr. Clark will be out on Mondays, and Mr. Forman will be out on Fridays.

X. Action Item Review / Other Meetings

Ms. O'Sullivan reviewed the action items list and discussed the outstanding items that are now complete and noted the outstanding and new action items from the meeting.

Ongoing Action Items:

- *Navy is to organize a meeting with the BCT to discuss the Finding of Suitability for Transfer (FOST) 4 scope and schedule after the HRASTM is finalized.*

New Action Items:

- *Navy to provide the schedule for the verification surveys at Site 12 with CDPH RHB (Kent Prendergast).*
- *Navy (Keith Forman) will discuss CDPH involvement in building demolition and surveys with CDPH (Stephen Woods).*

Future Agenda Items:

Ms. O'Sullivan asked for any additional agenda items to be included for the next BCT meeting; none were requested.

Next meetings:

- July 17, 2013, Tetra Tech, Oakland, California
- August 21, 2013, Tetra Tech, Oakland, California
- September 18, 2013, Tetra Tech, Oakland, California

The meeting adjourned at 12:05 p.m.

JUNE 2013
HANDOUTS
(53 Pages)

**AGENDA
NAVAL STATION TREASURE ISLAND
BRAC CLEANUP TEAM MEETING**

Date: Wednesday, June 19, 2013

Time: 10:00 a.m. to 12:00 p.m.

Place: Tetra Tech, 1999 Harrison Street, Suite 500, Oakland, CA

Dial In: [REDACTED]

Meeting ID#: [REDACTED]

Webinar link: [h](#) [REDACTED]

****NOTE:** If this is your first webinar, please log-in 10 minutes early to ensure your computer can sync with GoToMeeting webinars.

- | | |
|---------------|--|
| 10:00 – 10:05 | Introductions, Meeting Guidelines, Agenda Review, Meeting Minutes
(Keith Forman) |
| 10:05 – 10:20 | Site 12 Non-Time Critical Removal Action Update (Tony Konzen) |
| 10:20 – 10:40 | Basewide Radiological Work Plan (Danielle Janda) |
| 10:40 – 10:55 | Historical Radiological Assessment – Supplemental Technical Memorandum Update (Dave Clark / Keith Forman) |
| 10:55 – 11:10 | Building 233 Update (Tony Konzen) |
| 11:10 – 11:20 | Sites 27, 31 and 33 Update (Lora Battaglia) |
| 11:20 – 11:30 | Upcoming Documents and Field Activities (Dave Clark) |
| 11:30 – 11:40 | RAB Meeting Agenda / Community Relations Update (Keith Forman / Tommie Jean Valmassy) |
| 11:40 – 11:55 | Open Forum for City / Developer / BCT <ul style="list-style-type: none">• June 12 TIDA meeting update |
| 11:55 – 12:00 | Action Item Review / Other Meetings (Keith Forman) |

Future BCT Meetings:

July 17, 2013, Tetra Tech Inc., Oakland, California
August 21, 2013, Tetra Tech Inc., Oakland, California
September 18, 2013, Tetra Tech Inc., Oakland, California

Treasure Island BCT Meeting

Sign-in Sheet

Date:
June 19, 2013

Time:
10:00 AM – 12:00 PM

Location:
Tetra Tech, 1999 Harrison Street, Suite 500, Oakland

Sign In	Name	Organization	Phone	Email
	Allen Baradar	Caltrans	(510) 286-5000	allen.baradar@dot.ca.gov
on phone	Lora Battaglia	Navy	(619) 532-0968	lora.battaglia.ctr@navy.mil
	Bill Carson	Terraphase	(510) 388-8745	william.carson@terrphase.com
	David Clark	Navy	(619) 532-0973	david.j.clark2@navy.mil
Jennifer P. Duffield on phone	Jennifer Duffield	AMEC	(510) 663-4167	jennifer.duffield@amec.com
	Zach Edwards	Navy RASO	(757) 887-7762	zachary.edwards@navy.mil
KSF	Keith Forman	Navy	(619) 532-0913	keith.s.forman@navy.mil
Chris Glenn on phone	Chris Glenn	Treadwell & Rollo	(510) 874-7074	cglenn@langan.com
	Danielle Janda	Navy	(619) 532-0796	danielle.janda@navy.mil
Quinn Johnson	Quinn Johnson	Tetra Tech	(510) 302-6247	quinn.johnson@tetrattech.com
	Carolyn Jones	SF PUC	(415) 550-3577	cjones@sewater.org
on phone	Tracy Jue	CDPH EMB	(916) 324-4804	tracy.jue@cdph.ca.gov
	Tony Konzen	Navy	(619) 532-0924	anthony.konzen.ctr@navy.mil
	Radhika Majhail	DTSC	(916) 255-6681	radhika.majhail@dtsc.ca.gov
on phone	Gary Munekawa	Navy ROICC	(650) 603-9834	gary.munekawa@navy.mil
JPO	Jessica O'Sullivan	Tetra Tech	(510) 302-6235	jessica.osullivan@tetrattech.com
	Ron Pilorin	CDPH EMB	(916) 449-5664	ronald.pilorin@cdph.ca.gov
on phone	Marcie Rash	Tetra Tech	(510) 302-6324	marcie.rash@tetrattech.com
	Dorinda Shipman	Treadwell & Rollo	(415) 955-5262	dshipman@langan.com
	Christina Simmons	Treadwell & Rollo	(415) 955-5247	csimmons@langan.com


Treasure Island BCT Meeting

Sign-in Sheet

Date:
June 19, 2013

Time:
10:00 AM – 12:00 PM

Location:
Tetra Tech, 1999 Harrison Street, Suite 500, Oakland

Sign In	Name	Organization	Phone	Email
on phone	David Stensby	EPA	(415) 972-3246	stensby.david@epa.gov
WSunga	Medi Sunga	DTSC	(510) 540-3840	remedios.sunga@dtsc.ca.gov
	Denise Tsuji	DTSC	(510) 540-3824	denise.tsuji@dtsc.ca.gov
J. Valmassy	Tommie Jean Valmassy	Tetra Tech	(510) 302-6232	tommiejean.valmassy@tetrattech.com
on phone	Matthew Wright	CDPH EMB	(916) 449-5687	matthew.wright@cdph.ca.gov
	Myriam Zech	Water Board	(510) 622-5684	myriam.zech@waterboards.ca.gov
	Eric Goldman	SFPUC	415-307-8032	egoldman@sfpuc.org
on phone	Bob Burns	NGTS Inc.		
online webinar				
	Danielle Janda (NAVY)			
	David Stensby (EPA)			
	Kate Austin (TIDA)			
	Lora Battaglia (NAVY)			
	Marcie Rash (Tetra Tech)			



Naval Station Treasure Island



Site 12 – Phase I

Tony Konzen

Project Manager
Contracted Support to NAVFAC BRAC PMO
BRAC Program Management Office West

**Naval Station Treasure Island
BCT Meeting, June 19, 2013**



Preliminary Phase I Completion Schedule



- May 20: CBI (Shaw) mobilized
- June 10 – 28: Coordinate safety documents and dispose of gas cylinders
- May 20 – Aug 29: Mobilize, complete asbestos and lead based paint surveys, demolish Building 1321.
- June 18 – July 15: CDPH verification survey for Building 1321.
- July 1 – Oct 3: Scan and demolish Building 1123.
- Aug 5 – 30: CDPH verification survey for Building 1123.
- Aug 15 – Jan 13: Foundation removal/excavate beneath buildings
- Sept 1 – June 2014: Excavate radiologically elevated areas around Buildings 1321, 1119, and 1121
- July 2014: Demobilize from site



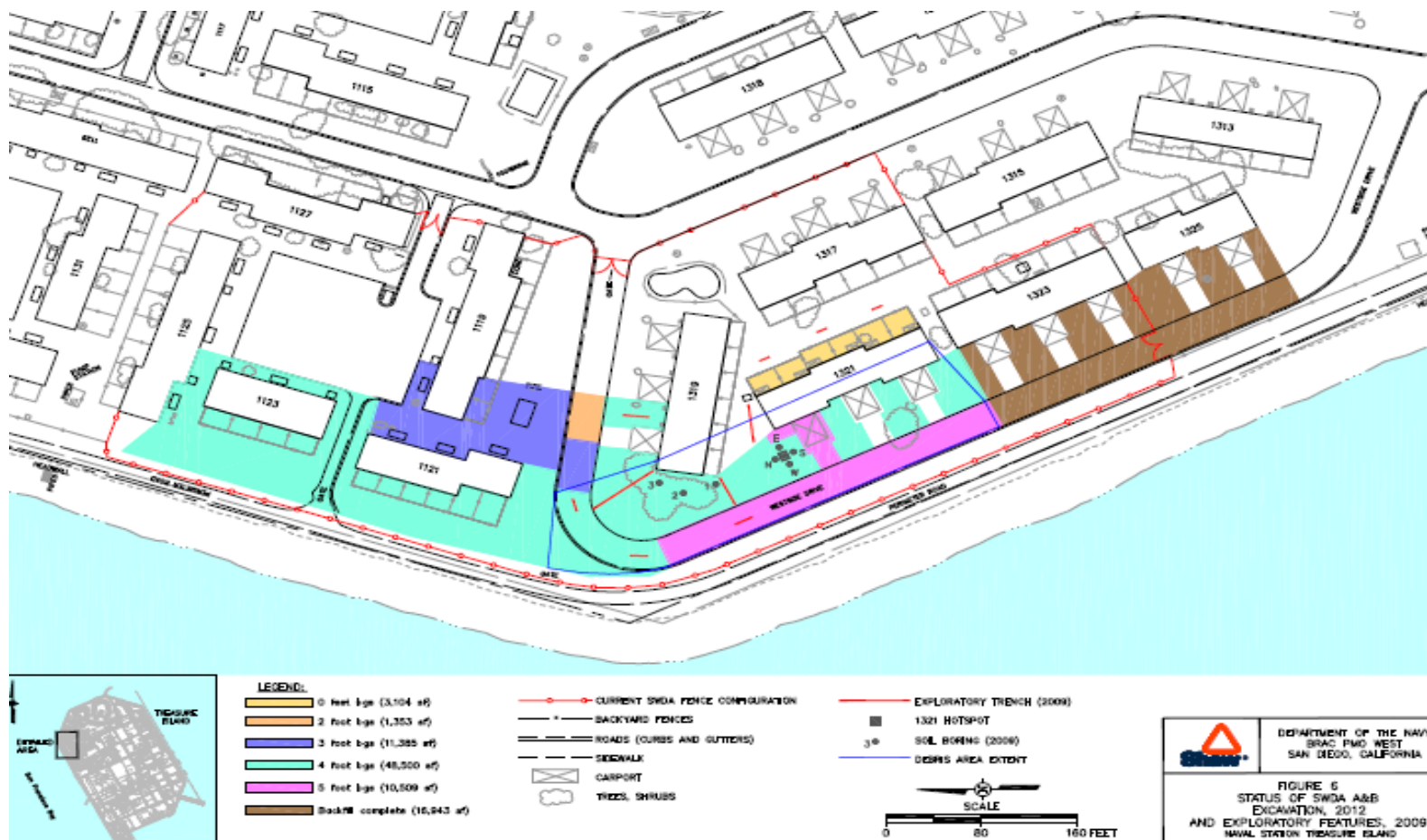
SWDA A&B



Work Performed in June 2011 to Remove Hot Spot Near Building 1321



SWDA A&B



Map of SWDA A&B Westside Drive



Site 12 Documents



- Bayside (SWDA 1207/1209) and North Point (SWDA 1231/1233) Removal Action Post-Construction Summary Report
 - The Final PCSR will be issued by end of June
- SWDA A&B Draft Post-Construction Summary Report
 - The document will be re-issued as a Draft in May 2014



Naval Station Treasure Island



Site 12 – Phase II Hot Spot NTCRA/Building Demolition Update

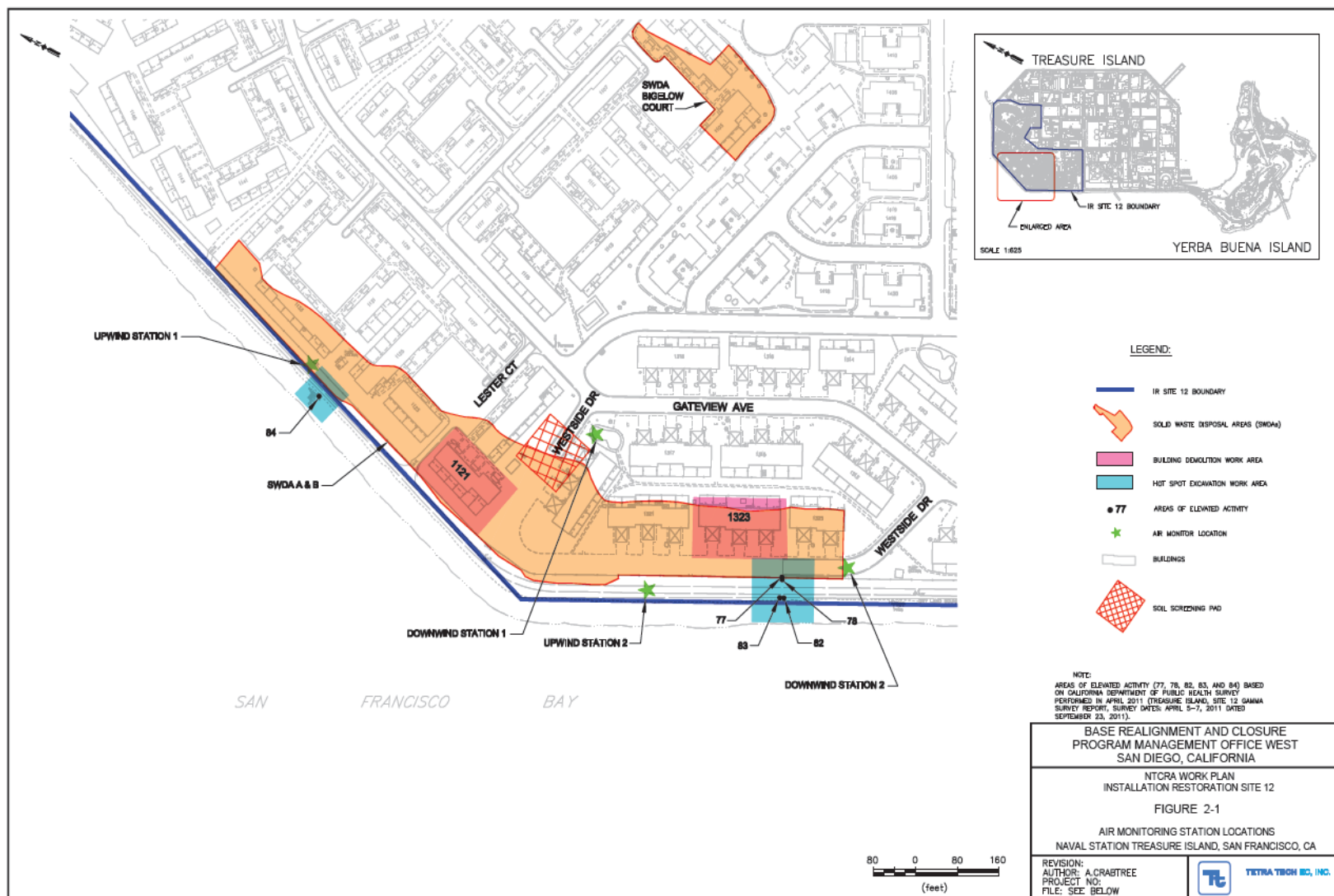
Tony Konzen

Project Manager
Contracted Support to NAVFAC BRAC PMO
BRAC Program Management Office West

Naval Station Treasure Island
BCT Meeting, June 19, 2013



NTCRA Work Areas





Schedule



- April 3: NTCRA Work Plan published as a Final document.
- May 17: Public notification for field work was circulated to nearby residents

Building 1121

- May 20 – June 28: Building preparation, radiologically scan the building, asbestos abatement
- Jun28 – July 12: Navy and DTSC/CDPH review of radiological survey data/CDPH performs confirmatory scans
- July 12 – July 19: Building demolition and debris disposal



Schedule (Cont'd)



Building 1323

- May 20 – July 12: Building preparation, radiologically scan the building, asbestos abatement
- July 12 – July 26: Navy and DTSC/CDPH review of radiological survey data/CDPH performs confirmatory scans
- July 26 – Aug 9: Building demolition and debris disposal



Schedule (Cont'd)



Removal Action for Radiologically Elevated Areas

- May 28 – June 10: Remove commodities, characterize areas, collect biased and confirmation samples
- June 7 – June 11: Backfill excavations and restoration
- May 31 – July 3: Waste characterization and disposal
- July 30: Demobilization from Site 12

Reporting

- October 2013: Draft Removal Action Completion Report (RACR) and FSS report to BCT



Field Activities/Findings to Date



Removal Action for Radiologically Elevated Areas

- Southern Hot Spot: Dose readings at the surface ranged from 15 to 200 $\mu\text{R/hr}$. Removed seven (7) metal fragments/commodities within the top 0.5-foot with on-contact dose readings ranging from 30 to 200 $\mu\text{R/hr}$. Confirmation soil samples collected from the excavation floors had Ra-226 concentrations ranging from 0.42 to 0.86 pCi/g.
- Northern Hot Spot: The dose reading at the surface was 700 $\mu\text{R/hr}$. Removed one (1) metal fragment/commodity within the top 0.5-foot with on-contact dose reading of 4,000 $\mu\text{R/hr}$. Confirmation soil samples collected from the excavation floors had Ra-226 concentrations ranging from 0.31 to 0.87 pCi/g.



Field Activities/Findings to Date (Cont'd)



Building 1121

- Building interior cleaned, asbestos and lead based paint surveys completed, Radiological surveys beginning.

Building 1323

- Building interior cleaned, asbestos and lead based paint surveys ongoing.



Photos – Building 1121





Photos – Hot Spot Removal



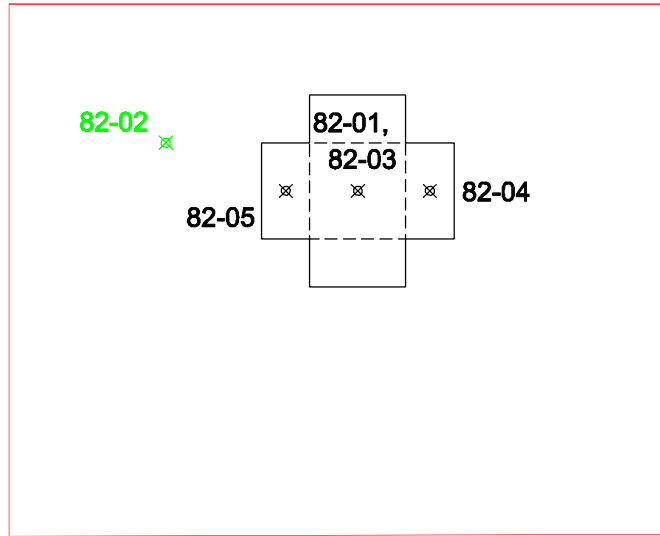
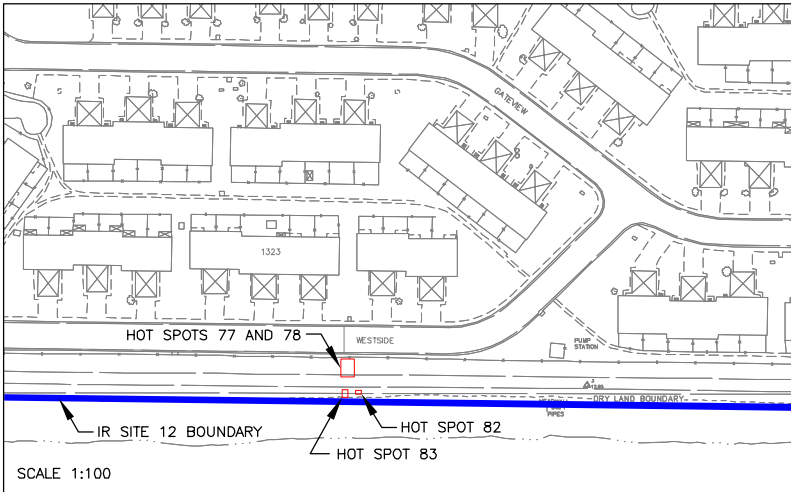


Photos – Hot Spot Removal

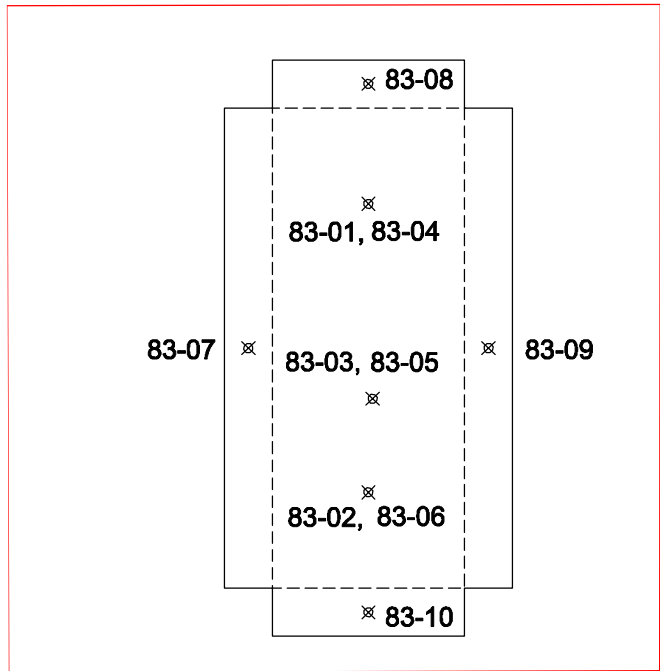




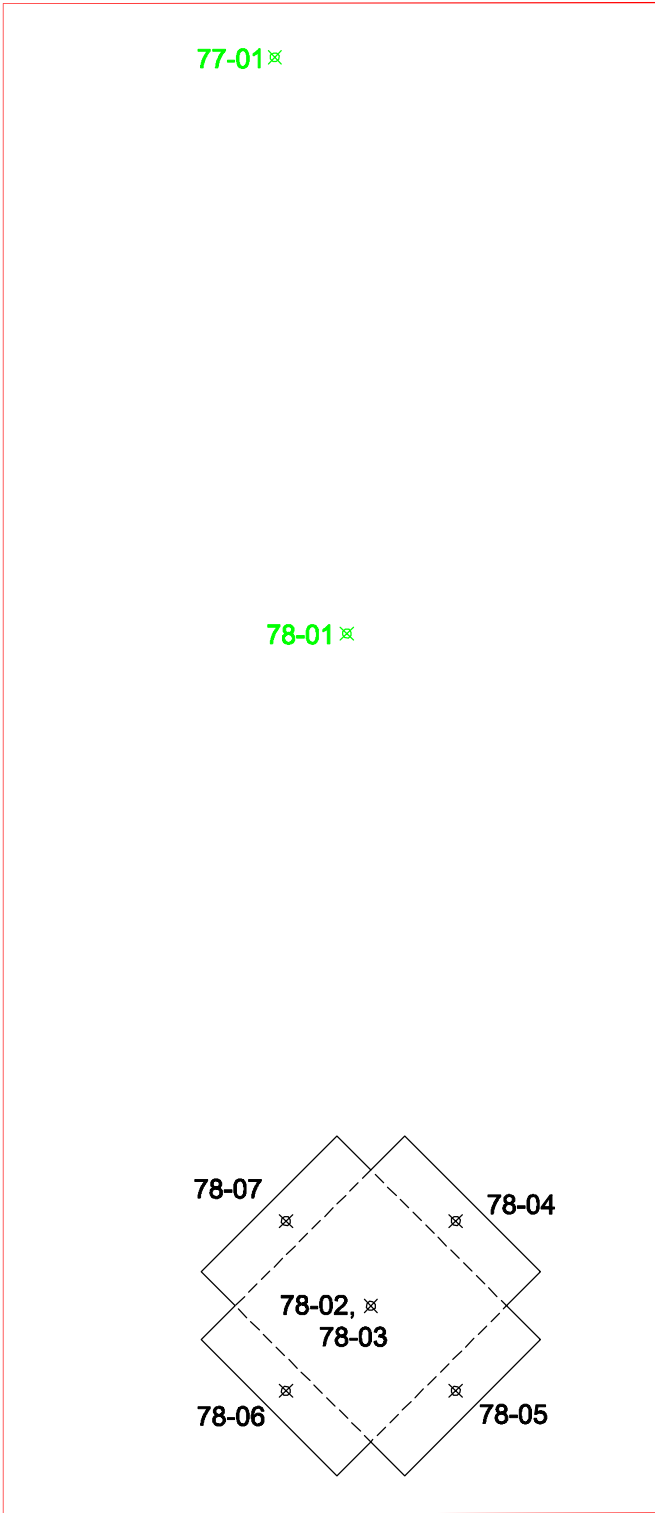
QUESTIONS?



HOT SPOT 82
1' BY 1' BY 0.5'



HOT SPOT 83
5' X 2' X 0.5'

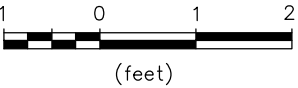


HOT SPOTS 77 AND 78
2' X 2' X 0.5'

Sample ID	Ra-226 (pCi/g)	Soil Removed (cu ft)	Notes
13-IR12-E-HS77-01	0.6196	1	Sample after removal of elevated material
13-IR12-E-HS78-01	0.9254	0.5	Sample after removal of elevated material
13-IR12-E-HS78-02	1.127	0.5	Initial sample after removal of elevated material
13-IR12-E-HS78-03	0.8588	1.5	Final post-remediation sample
13-IR12-E-HS78-04	0.5686		Final post-remediation sample
13-IR12-E-HS78-05	0.7447		Final post-remediation sample
13-IR12-E-HS78-06	0.4706		Final post-remediation sample
13-IR12-E-HS78-07	0.4513		Final post-remediation sample
13-IR12-E-HS82-01	1.201	< 1	Initial sample after removal of elevated material
13-IR12-E-HS82-03	0.5039	1	Final post-remediation sample
13-IR12-E-HS82-04	0.6442		Final post-remediation sample
13-IR12-E-HS82-05	0.8476		Final post-remediation sample
13-IR12-E-HS82-02	0.9745	< 1	Sample after removal of elevated material
13-IR12-E-HS83-01	1.84	< 1	Initial sample after removal of elevated material
13-IR12-E-HS83-02	21.72	< 1	Initial sample after removal of elevated material
13-IR12-E-HS83-03	2.193	< 1	Initial sample after removal of elevated material
13-IR12-E-HS83-04	0.4231	5.5	Final post-remediation sample
13-IR12-E-HS83-05	0.7058		Final post-remediation sample
13-IR12-E-HS83-06	0.716		Final post-remediation sample
13-IR12-E-HS83-07	0.3481		Final post-remediation sample
13-IR12-E-HS83-08	0.631		Final post-remediation sample
13-IR12-E-HS83-09	0.6865		Final post-remediation sample
13-IR12-E-HS83-10	0.7666		Final post-remediation sample
	Highlighted Numbers are Ra-226 > 1 pCi/g		
All results greater than 1 pCi/g were remediated until final post-remediation results were less than 1 pCi/g.			

- LEGEND:**
- X 82-01 SAMPLE POINT LOCATIONS
 - X 77-01 SAMPLE POINT LOCATIONS NO FURTHER ACTION TAKEN
 - BUILDINGS

SAMPLE COLLECTION LOCATIONS (#77-01, #78-01 THROUGH #78-07, #82-01 THROUGH #82-05, #83-01 THROUGH #83-10)



RECORD COPY

BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA

SOLID WASTE DISPOSAL AREA A & B
INSTALLATION RESTORATION SITE 12

HOT SPOT REMOVAL SOUTHERN DIG LOCATION

NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CA

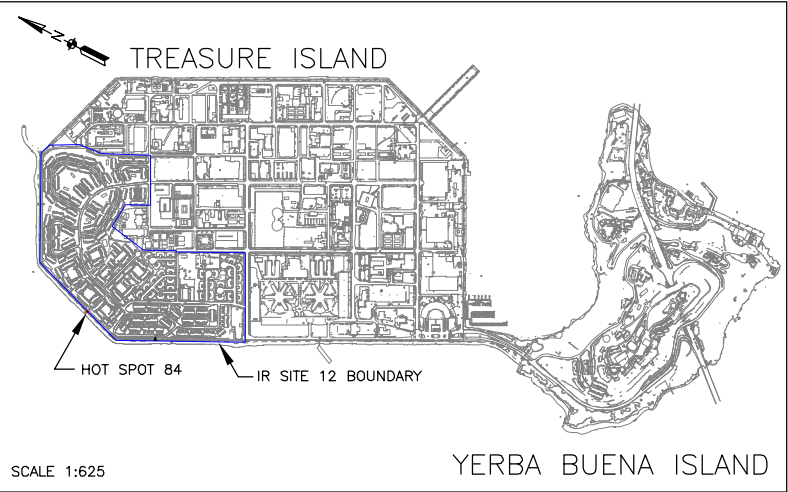
REVISION:
AUTHOR: A.CRABTREE
PROJECT NO:
FILE: SEE BELOW



TETRA TECH EC, INC.

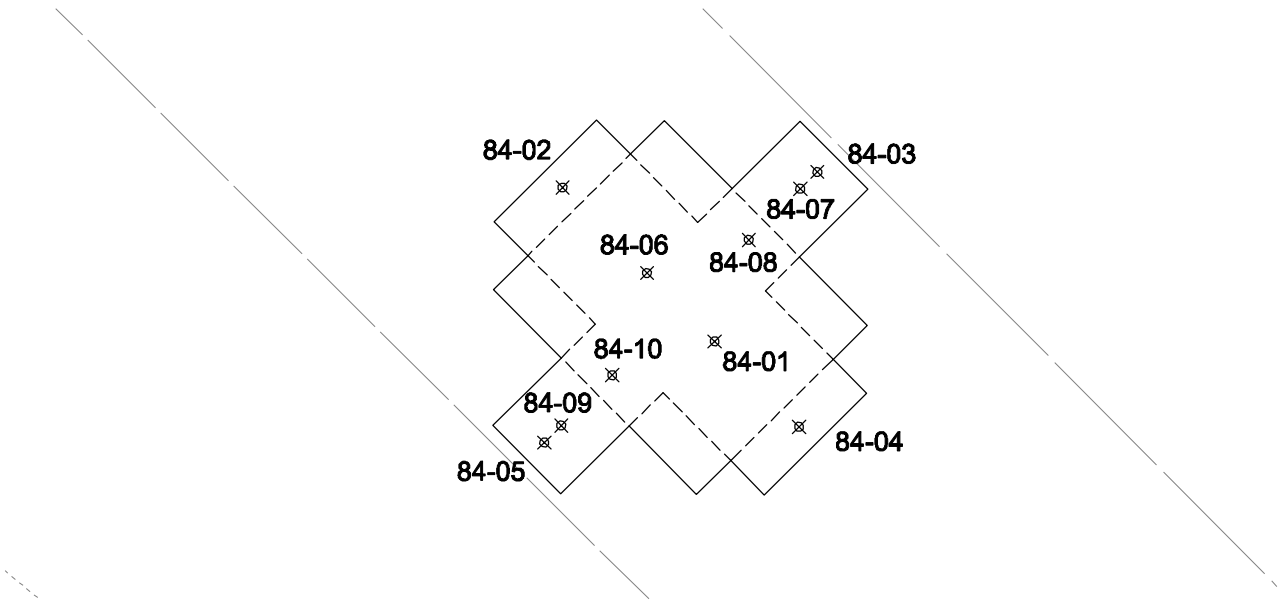


Sample ID	Ra-226 (pCi/g)	Soil Removed (cu ft)	Notes
13-IR12-E-HS84-01	0.8622	3	Initial sample after removal of elevated material
13-IR12-E-HS84-02	0.855		Final Post-remediation sample
13-IR12-E-HS84-03	1.253		Initial post-remediation sample
13-IR12-E-HS84-04	0.5876		Final Post-remediation sample
13-IR12-E-HS84-05	1.061		Initial post-remediation sample
13-IR12-E-HS84-06	0.3101	1.5	Final Post-remediation sample
13-IR12-E-HS84-07	0.6493		Final Post-remediation sample
13-IR12-E-HS84-08	0.7654		Final Post-remediation sample
13-IR12-E-HS84-09	0.8756	1	Final Post-remediation sample
13-IR12-E-HS84-10	0.5012		Final Post-remediation sample
	Highlighted Numbers are Ra-226 > 1 pCi/g		
All results greater than 1 pCi/g were remediated until final post-remediation results were less than 1 pCi/g.			



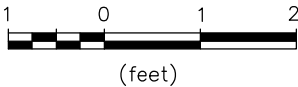
LEGEND:

- ✕ 84-01 SAMPLE POINT LOCATIONS
- ▭ BUILDINGS




HOT SPOT 84
3' X 2.5' X 0.5'

SAMPLE COLLECTION LOCATIONS (#84-01 THROUGH #84-10)



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BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA	
SOLID WASTE DISPOSAL AREA A & B INSTALLATION RESTORATION SITE 12	
HOT SPOT REMOVAL NORTHERN DIG LOCATION	
NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CA	
REVISION: AUTHOR: A.CRABTREE PROJECT NO: FILE: SEE BELOW	 TETRA TECH EC, INC.



Naval Station Treasure Island



Radiological Management Work Plan

Danielle Janda

Project Manager
BRAC Program Management Office West

**Naval Station Treasure Island
BCT Meeting, June 19, 2013**



Radiological Management Work Plan



- April 12: Draft Radiological Management Plan Distributed
- May 10: Draft Sampling and Analysis Plan Distributed
- May 16: Building 3 and Sewer Lines TSP Distributed
- June 3: All comments received
- June 17: Site 12 and Roadways TSP Distributed
- June 26: Responses to Comments to be Distributed
- June 26: Site 32 TSP to be Distributed
- July 19: Final Work Plan to be Distributed
- July 22: Field Work Begins



Key Changes



- The title of the work plan will be changed to indicate that it is for selected sites only (i.e. not basewide)
- Section 2.0 will be revised to describe the selected sites only
 - IR Site 12
 - Selected Roadways
 - IR Site 32
 - Building 3
 - Selected Sewer Lines



What Areas are part of this Work Plan?

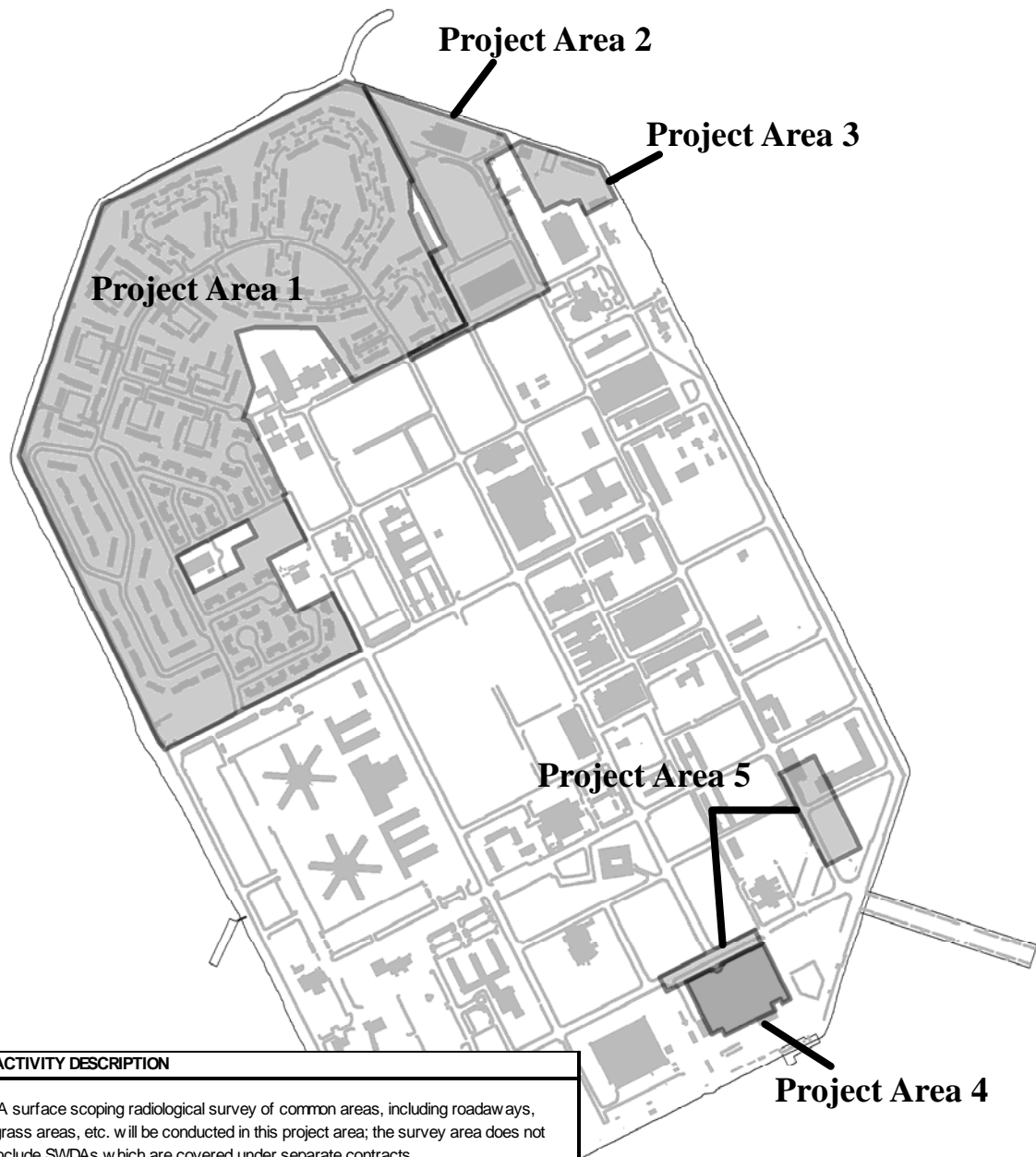


Project Area	Purpose
IR Site 12	Provide data to assist with conclusions for the HRASTM
Select Roadways	Provide data to assist with conclusions for the HRASTM
IR Site 32	Address concerns about ROCs; if nothing is found, the Navy will move forward with the IR Site 32 No Action ROD
Building 3	Address concerns about ROCs; if nothing is found, the Navy will request free release of the building
Select Sewer Lines	Address concerns about ROCs; if nothing is found, the Navy will request free release of the sewer lines
Potential New Project: Select Storm Lines	Address concerns about ROCs; if nothing is found, the Navy will request free release of the sewer lines



Questions / Discussion

Project Areas Subject to This MOU



PROJECT AREA	ACTIVITY DESCRIPTION
1. Site 12	A surface scoping radiological survey of common areas, including roadways, grass areas, etc. will be conducted in this project area; the survey area does not include SWDAs which are covered under separate contracts
2. Additional Roadways	A surface scoping radiological survey will be conducted of roadways in this project area
3. Site 32	A scoping radiological survey will be conducted of this project area; the survey area does not include the area previously excavated and backfilled as part of a TSCA removal action
4. Building 3	A radiological survey of Building 3 will be conducted in this project area
5. Wastewater Pipes	The wastewater collection system leaving former Buildings 233 and 7 and the wastewater collection system leaving Building 3 will be surveyed in this project area; surveys will not extend beyond pump stations

ITSI Gilbane Office and Emergency Gathering Point is to be determined closer to the field work date; the figure will be updated accordingly at that time



Historical Radiological Assessment – Supplemental Technical Memorandum Update

**Naval Station Treasure Island
BCT Meeting, June 19, 2013**



Additional Research



Continued research being conducted on following issues:

- Site 12
 - Incorporate radiological soil data collected during feasibility study data gaps investigation
 - Incorporate scanning results from towed array survey of Site 12 areas outside of SWDAs; including any biased soil samples that are collected
 - Reviewing housing construction plans and as-built drawings
 - Researching and interviewing past Navy personnel and housing contractors
- Outfalls – research specific outfalls and histories
- Incinerator – identify incinerated items, ash disposal
- Operation CROSSROADS – confirm ships were adequately decontaminated before temporary berthing at TI



HRASTM Schedule



Date	Task
17 July 2013	Discuss status of research with BCT
31 July 2013	Discuss available preliminary Site 12 scoping survey results
21 August 2013	Working meeting regarding redline strikeout HRASTM and additional Site 12 scoping survey results
30 August 2013	Issue redline strikeout HRASTM; BCT 30-day review
30 September 2013	Receive BCT comments
16 October 2013	Resolve remaining BCT comments
31 October 2013	Issue Final HRASTM



Questions?



Naval Station Treasure Island



Building 233 Update

Tony Konzen

Project Manager
Contracted Support to NAVFAC BRAC PMO
BRAC Program Management Office West

BCT Meeting, June 19, 2013



Building 233 Site



- All remaining asbestos pipe at Building 233 site has been removed
- Completed remaining characterization survey
- Preparing a Characterization Survey Report and FSS Plan (draft for review in August)



Crew preparing asbestos-coated drain line for disposal as LLRW (above)



View of area after East-West line removal (left)



Building 233 Site



Building 233 site showing former building footprint
and bin staging to the east



Building 233 Soil Bins



Loading soil bins onto bin truck





B233 Processing Bins and Soil



Dumping soil on 20-mil plastic





B233 Processing Bins and Soil



- Soil has been spread on plastic for final soil sampling. The intent is to clear the materials for reuse on site upon confirmation that it only contains levels of Ra-226
- All soil bins have been emptied and sampled
- Bins will be removed from TI in groups starting this week



Soil spread with an excavator bucket or bob cat in 6" lifts (maximum 200 cy at a time) for radiological sampling



Building 233 Schedule



- June 17 – July 30: Complete red bin soil characterization and transport the bins off site
- June 10 – July 17: Analyze soil samples from line removal
- July 17 – 31: Remediate any remaining areas around piping or drain basins based on sample results
- August 29: Draft Characterization and FSS Work Plan
- Sept 26 – Oct 11: FSS Field Work
- Jan 9, 2014: Draft FSS Report to BCT



Building 233

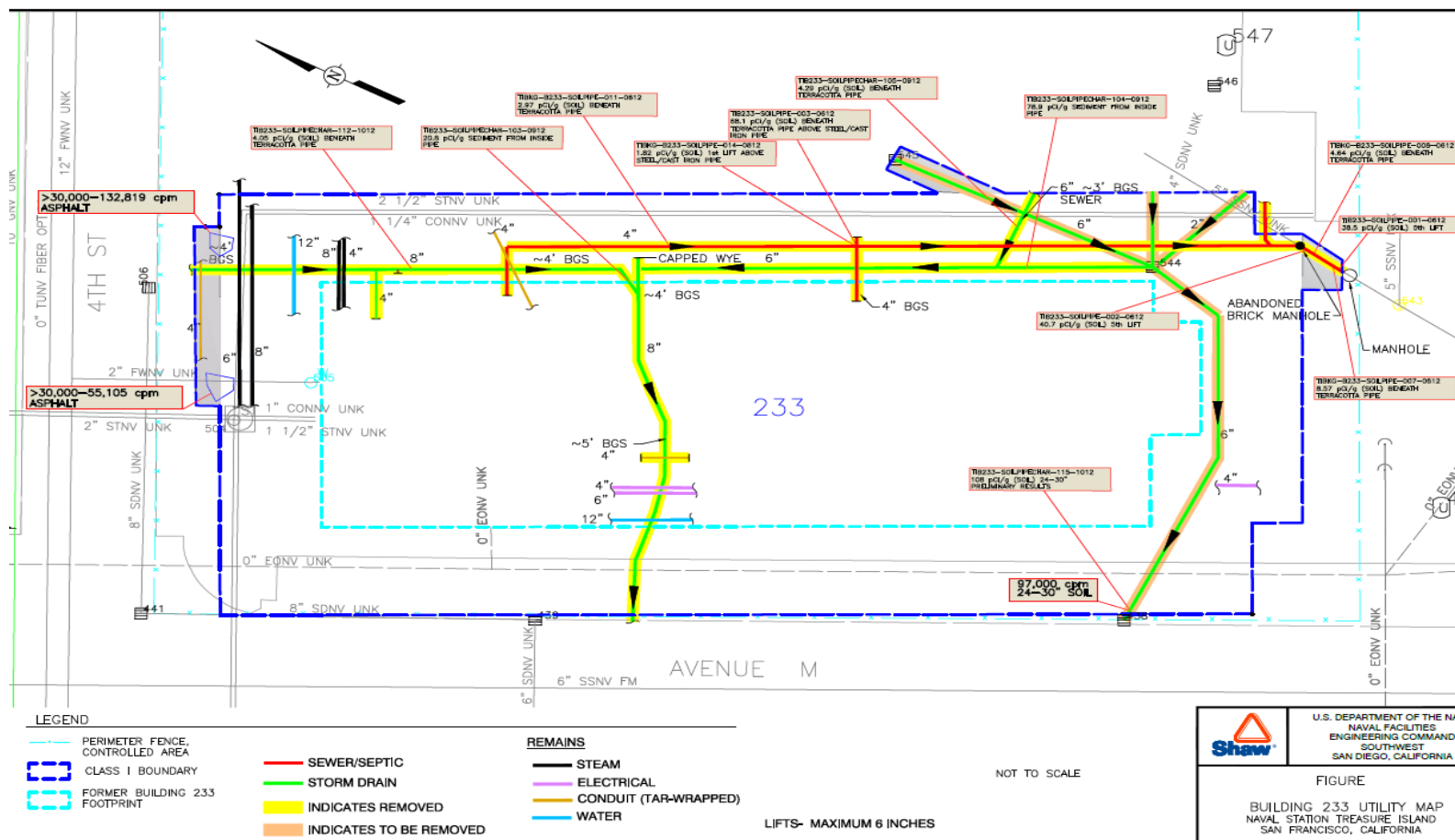


Figure Showing Drain Lines Removed and Class I Survey Unit – Note that all drain lines have been removed



Questions





Naval Station Treasure Island



Sites 27, 31 and 33 Update

Lora Battaglia

Remedial Project Manager
Support Contractor to NAVFAC BRAC PMO
BRAC Program Management Office West

BCT Meeting, June 19, 2013



Site 27 Remedial Design



- Final (100%) Remedial Design to BCT: May 22
 - Thank you for input and continued coordination





Site 27 Remedial Action Work Plan (RAWP)



Draft RAWP:

April 8

Draft RTCs to BCT:

June 22

Final RAWP:

July 12

Fact Sheet:

July 12





Site 27 Field Work (TI Phase)



- Mobilization (~4 days): July 9-12
- Core Sampling and Analysis (~23 days): July 9
- Turbidity Curtain Installation (~8 days): July 30
- Focused Dredge (~19 days): August 8
- Transport to Alameda (~20 days): August 13
- Post Dredge Bathymetry (2 days): Sept 11





Site 27 Field Work (Alameda Phase)



- Sediment Dewatering (~30 days): September 11
- Backfill (~24 days): September 12
- Transfer of Sediment (~18 days): October 25
- Demobilization (~10 days): November 19



- Fish Window (July - October)
- Least Tern Nesting Season (March - July)
- Brown Pelican Season (July 1 - Sept 30)
- Biologist will be available at Alameda



Site 31 and Site 33



- Tetra Tech EC temporarily maintaining soil stockpiles and RCAs at both sites until new contract is awarded
 - Tarps to be replaced with copolymer soil stabilizer
- Site 33 RCA was down-posted on April 25
 - Fencing still remains
 - Site 31 RCA to remain





Site 31 and Site 33



- Contracting of remaining work is underway; estimated award in July
- Upon issuance of new contract:
 - Draft Work Plan with expedited review: August
 - FSS review: November
 - T&D of stockpiled soils: August/Sept
 - Site restoration: August/Sept
 - RACR Reports: December





Questions



Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
June 2013 - November 2013

			INTERNAL DRAFT				DRAFT							RTC			INTERNAL FINAL			FINAL					
Item	Document Title & Information	C/O/DO	Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments							Priority Review	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies		Comments					
						Date Due	DTSC	WATER BOARD	EPA	TIDA/TICD	RAB	OTHER													
Site 6																									
1	UST 240 Post-Construction Summary Report	0002	05/07/13	✓	05/21/13	✓	06/24/13	07/24/13							07/31/13	08/14/13	08/26/13	09/09/13	09/23/13						
	RPM: Tony Konzen																								
	PM: Phil Skorge, ERRC																								
2	Site 6 PP/Draft RAP	0038	07/10/13		08/09/13		08/23/13	09/22/13							10/20/13	11/03/13	11/19/13	11/29/13	12/13/13	Schedule pending BCT discussion					
	RPM: Tony Konzen																								
	PM: Dennis Kelly, TriEco-Tt																								
Site 12																									
3	Bayside/North Point Post-Construction Report	0010	10/18/11 07/03/12	✓ ✓	02/27/12 08/03/12	✓ ✓	09/07/12	✓	10/29/12	✓	X	✓			03/07/13	✓	NA	05/09/13	05/29/13	06/28/13					
	RPM: Tony Konzen																								
	PM: Ulrika Messer, CBI																								
4	SWDA A&B Post-Construction Summary Report (Phase I)	0010	10/25/12 04/22/14	✓	12/10/12 05/12/14	✓	01/28/13 05/30/14	✓	02/27/13 06/27/14	X					07/10/14	07/12/14	07/14/14	07/19/14	07/24/14						
	RPM: Tony Konzen																								
	PM: Ulrika Messer, CBI																								
5	Site 12 Feasibility Study	:	06/21/13		07/22/13		08/20/13	09/19/13							10/09/13	TBD	10/31/13	11/14/13	11/28/13						
	RPM: Tony Konzen																								
	PM: Doug Gilkey, KCH																								
Site 21																									
6	Site 21 Land Use Control RD/RAWP	:	04/08/13	✓	05/08/13	✓	06/20/13	07/18/13							08/01/13	08/08/13	08/19/13	08/26/13	09/02/13						
	RPM: Danielle Janda																								
	PM: Internal Navy																								
Site 24																									
7	Phase III Treatability Study Report	:	04/05/13	✓	04/22/13	✓	05/02/13	✓	06/03/13	✓	✓	✓			07/01/13	07/02/13	08/01/13	08/11/13	08/25/13	DTSC (5/31), TIDA (6/5), WB (6/12)					
	RPM: Danielle Janda																								
	PM: Neil Hey, CBI																								
Site 27																									
	Site 27 Remedial Design	0009	05/31/12* 01/02/13**	✓ ✓	06/20/12* 01/18/13**	✓ ✓	07/16/12* 02/05/13**	✓ ✓	08/16/12* 03/08/13**	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	11/02/12* 04/11/13**	✓ ✓	11/09/12* 04/18/13**	✓ ✓	04/29/13	✓ ✓	05/07/13	✓ ✓	05/23/13	✓ ✓	130% design,**90% design DTSC (3/1), WB (3/8): TIDA (3/4): DFG (3/4): BCDC (3/8)
	RPM: Lora Battaglia																								
	PM: Katie Henry, TriEco-Tt																								
8	Site 27 Remedial Action Work Plan	:	02/15/13	✓	03/16/13	✓	04/09/13	✓	04/22/13	✓	✓	X	✓		06/18/13	NA	06/19/13	07/01/13	07/12/13		DTSC (4/22), TIDA (4/22), EPA (5/15), WB (5/30)				
	RPM: Lora Battaglia																								
	PM: Hedy Abedi, TIEC																								

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
June 2013 - November 2013**

			INTERNAL DRAFT				DRAFT							RTC		INTERNAL FINAL			FINAL	
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						Date Due	DTSC	WATER BOARD	EPA	TIDA/TICD	RAB	OTHER								
Sites 31/33																				
9	Site 31 Remedial Action Work Plan Amendments	:	07/26/13	07/31/13	08/07/13	08/14/13							08/16/13	NA	08/16/13	08/18/13	08/20/13	Awaiting contract award		
	RPM: Lora Battaglia																			
	PM:																			
10	Site 31 Remedial Action Completion Report	:	11/04/13	12/04/13	01/02/14	02/01/14							02/06/14	NA	02/06/14	02/12/14	02/19/14	Awaiting contract award		
	RPM: Lora Battaglia																			
	PM:																			
11	Site 31 Final Status Survey Report	:	10/09/13	11/13/13	11/20/13	12/19/13							12/24/13	NA	12/24/13	12/31/13	01/06/14	Awaiting contract award		
	RPM: Lora Battaglia																			
	PM:																			
12	Site 33 Remedial Action Completion Report	:	07/31/12	✓ 08/15/12	✓ 09/10/12	✓ 11/02/12	✓		X	✓			02/06/13	✓ 03/06/13	✓ 11/04/13	12/04/13	02/21/14	Awaiting contract award		
	RPM: Lora Battaglia																			
	PM:																			
Building 233																				
13	Building 233 Characterization and FSS Plan	0010	07/31/13	08/21/13	08/28/13	09/25/13							09/27/13	NA	09/28/13	09/29/13	09/30/13			
	RPM: Tony Konzen																			
	PM: Ulrika Messer, CBI																			
14	Building 233 Final Status Survey Report	0010	12/05/13	01/02/14	01/23/14	02/19/14							03/13/14	03/26/14	03/28/14	03/30/14	04/02/14			
	RPM: Tony Konzen																			
	PM: Ulrika Messer, CBI																			
Groundwater Monitoring																				
15	2012 Sites 6 and 12 Groundwater Report	:	03/31/13	✓ 04/15/13	✓ 05/02/13	✓ 06/03/13	✓			✓	✓		06/27/13	TBD	07/11/13	07/25/13	08/08/13	DTSC (6/3), RAB (6/3), TIDA (6/5)		
	RPM: Danielle Janda																			
	PM: Greg Alyanakian, Trevet																			
16	2012 Sites 21 and 24 Groundwater Report	:	07/12/13	07/26/13	08/16/13	09/15/13							09/29/13	10/06/13	10/13/13	10/27/13	11/03/13			
	RPM: Danielle Janda																			
	PM: Greg Alyanakian, Trevet																			
17	2013 Sites 6, 12, 21, 24 Groundwater WP and SAP	:	06/06/13	✓ 07/11/13	07/25/13	08/22/13							09/05/13	09/12/13	09/23/13	09/30/13	10/07/13			
	RPM: Danielle Janda																			
	PM: Greg Alyanakian, Trevet																			
Other Reports																				
18	Historical Radiological Assessment Tech Memo	0003	05/30/12	✓ 06/29/12	✓ 08/06/12	✓ 10/05/12	✓	✓	✓	✓	✓	✓	01/18/13 08/30/13	✓ 10/16/13	10/20/13	10/25/13	10/31/13	Document on-hold pending upcoming Site 12 characterization survey		
	RPM: David Clark																			
	PM: Marcie Rash, TriEco-Tt																			
19	TI Basewide Radiological Management Plan	0006	01/07/13	✓ 02/19/13	✓ 04/12/13	✓ 05/12/13	✓		✓				06/28/13	TBD	07/05/13	07/12/13	07/19/13	TIDA (5/14), DTSC (5/17) SAP Cmts: EPA (6/3), TIDA (6/3)		
	RPM: Danielle Janda																			
	PM: John Baur, ITSI																			

**Naval Station Treasure Island
Environmental Cleanup Program
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June 2013 - November 2013**

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						Date Due	DISC	WATER BOARD	EPA	TIDA/TICD	RAB									OTHER					
Other Reports (Continued)																									
20	2013 Site Management Plan	0003	03/27/13	✓	05/06/13	✓	06/20/13		07/20/13						07/31/13		TBD		08/30/13		09/10/13		09/24/13		
	RPM: Danielle Janda																								
	PM: Marcie Rash, TriEco-Tt																								
21	Community Relations Plan Update	0038	08/11/13		09/08/13		10/04/13		11/03/13						11/15/13		12/18/13		01/01/14		01/15/14		02/01/14		
	RPM: Keith Forman																								
	PM: Marcie Rash, Tetra Tech																								

- ✓ Production or review of document is complete.
- X Received notification of no comments or comments deferred to other agency.

Abbreviations:

CTO/DO = Contract task order/delivery order
DTSC = Department of Toxic Substances Control
EPA = U.S. Environmental Protection Agency
FS = Feasibility study
FSS = Final status survey
HHRA = Human health risk assessment
LUC = Land use control
NA = Not applicable
NTCRA = Non-time critical removal action

PCB = Polychlorinated biphenyls
PM = Project manager
PP = Proposed plan
RAP = Remedial action plan
RASO = Radiological Affairs Support Office
RD = Remedial Design
RAWP = Remedial Action Work Plan
RI = Remedial investigation
ROD = Record of decision

RPM = Remedial project manager
SAP = Sampling and analysis plan
SWDA = Solid waste disposal area
TBD = To be determined
TICD = Treasure Island Community Developers
TIDA = Treasure Island Development Authority
UST = Underground storage tank
Water Board (WB) = Regional Water Quality Control Board
WP = Work Plan

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 30 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 30 days.

Naval Station Treasure Island
Navy Field Schedule
June 2013 - November 2013

Item	Activity and Investigation Area	Field Dates	Navy RPM	Complete
Site 12				
1	Non-Time Critical Removal Action	Start: 02/26/07 Finish: TBD	Tony Konzen (619) 532-0924	
2	SWDA A&B (Phase II) - Site 12 Hot Spots and Buildings 1121 and 1323 Demolition	Start: 05/15/13 Finish: 08/17/13	Tony Konzen (619) 532-0924	
Site 27				
3	Site 27 Remedial Action	Start: 07/09/13 Finish: 11/04/13	Lora Battaglia (619) 532-0968	
Sites 31/33				
4	Sites 31/33 Remedial Action	Start: 02/02/12 Finish: 10/31/13	Lora Battaglia (619) 532-0968	
Building 233				
5	Building 233 Debris Screening / Final Status Survey	Start: 01/30/12 Finish: 04/11/14	Tony Konzen (619) 532-0924	
Groundwater Monitoring				
6	Sites 6,12 - 1st Quarter Groundwater Sampling <i>Sites 6 and 12</i>	Start: 06/24/13 Finish: 06/26/13	Danielle Janda (619) 532-0796	
7	Sites 6, 21, 24 - Groundwater/Soil Gas Sampling <i>Sites 6, 21, and 24</i>	Start: 09/16/13 Finish: 09/25/13	Danielle Janda (619) 532-0796	
Other				
8	Scoping Surveys - Various Sites <i>Building 3, Sites 12, 32, and roads between Sites 6 and 12; and Waste Utilities at Bldgs 3, 7, and 233</i>	Start: 07/22/13 Finish: 10/22/13	Danielle Janda (619) 532-0796	

Abbreviations:

-- Not applicable, there is no associated documentation listed on the DTS.
CTO/DO Contract task order/delivery order
DTS # The number listed corresponds to the associated documentation listed on the Document Tracking Sheet.
RPM Remedial project manager
SWDA Solid waste disposal area
TBD To be determined
UST Underground storage tank

✓ Field work is complete.

Yellow shading indicates field activities that will start or finish within the next 30 days.

Grey shading indicates field activities are complete.

TREASURE ISLAND BCT ACTION ITEMS

June 19, 2013

Item	Action Item	Lead	Due Date	Revised Due Date	Completed	Comments
RADIOLOGICAL						
	The Navy is to organize a meeting with CDPH to discuss an appropriate path forward for the Building 233 data and discuss any remaining concerns.	Navy <i>Tony Konzen</i>	04/17/13		05/15/13	As requested at the February 2013 BCT meeting. M. Wright stated this item has been discussed to his satisfaction with the Navy and is complete.
	Navy will verify red bins at Building 233 are accurately posted with placards	Navy <i>Tony Konzen</i>	06/19/15		06/17/13	As requested by CDPH at the April 2013 BCT meeting. Per the Navy's contractor (CBI), no placards are required or warranted.
SITE 12						
	Navy will schedule the Site 12 FS storyboard meeting for the afternoon of the April 17 BCT meeting	Navy <i>Tony Konzen</i>	Early to mid-June		06/18/13	Navy is awaiting all validated data and internal review from technical manager. The storyboard meeting was held on June 18.
MISCELLANEOUS						
1	Navy is to organize a meeting with the BCT to discuss the FOST 4 scope and schedule after the HRASTM is finalized.	Navy <i>Keith Forman</i>	ongoing			As requested by TICA at the February 2013 BCT meeting. This will be completed subsequent to the HRASTM.
	TIDA to provide an update on importing soil onto Treasure Island, in particular the planned location of the stockpile, trucking details, and timeframes.	TIDA <i>Michael Tymoff</i>	05/15/13		05/15/13	As requested by Navy at the April 2013 BCT meeting. M. Tymoff provided an update during the May BCT meeting.

Notes:

✓ Gray shading and/or check mark indicates action item is complete.

BCT Base Realignment and Closure Cleanup Team

CDPH California Department of Public Health

DTSC Department of Toxic Substances Control

RAB Restoration Advisory Board

RASO Radiological Affairs Support Office

RI Remedial Investigation

RTC Response to comments

SF PUC San Francisco Public Utilities Commission

TBD To be determined

TIDA Treasure Island Development Authority

YBI Yerba Buena Island